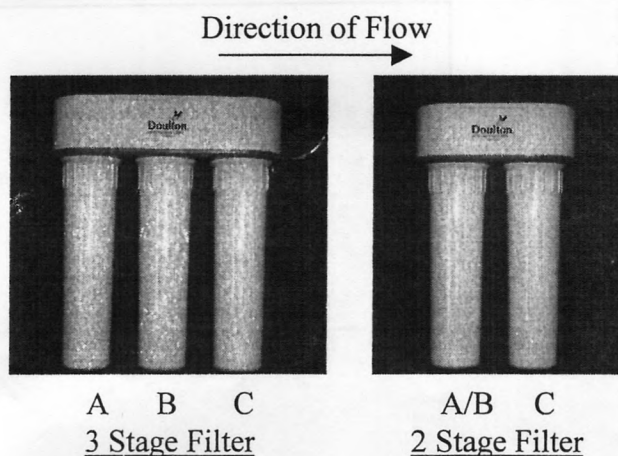




Doulton®

world class ceramic filters

HIP Multi-Stage Filter Installation and Conditioning Instructions



Installation of Cartridges:

- A. Prefilter.
- B. Treatment cartridge.
- C. Ceramic cartridge.

As advised by distributor depending on your water quality.

Replacement Cartridges:

Contact your local Doulton® distributor for the range of available replacement filter cartridges.

Maximum Working Pressure: 100 psig (689kPa) See 1.1

Maximum Working Temperature: 30°C (86°F)

Minimum Operating Pressure: 10 psig (69kPa)

1. Installation

1.1 Pressure Information

Due to the potential wide variations of pressures from one installation to another the manufacturer advises that **if there is any doubt that the system would see pressures above 100 psig (approx. 6.9bar) then an approved pressure reducing valve bought from a good hardware store and set at 100 psig (approx. 6.9bar) should be installed upstream of the filter to eliminate any extreme variations in pressure.** Water fittings for use in permanently pressurised systems may have a finite life. It is important that the plastic components in the system are replaced after 10 years usage.

1.2 Selecting a position for the Filter

The filter should be fixed to a unit or wall with the screws provided, near to the incoming water supply and the user tap/faucet. **N.B. This filter is not designed for the treatment of hot water and should only be connected to the cold water supply.** Make sure that the filter is located so that the connecting pipework does not have any sharp bends in it. For easy servicing of the filter there should be at least 4 inches of clearance below the body of the filter to allow for removal of the cartridge for cleaning or renewal.

1.3 Connecting Pipework and Fittings

The filter is supplied with 3/8" (inch) pushfit connections. Medium density polyethylene tubing is recommended.

Important Note: Tubing must conform to the following tolerances:

Head Type	Tubing Dimensions	
	Nominal	Tolerance
3/8"	3/8"	$\begin{matrix} + \\ .001" \\ - \\ .004" \end{matrix}$

An isolation valve and non-return valve should be fitted upstream of the filter (these are required by law in the UK). The isolation valve may be used to regulate the maximum flow rate in accordance with the requirement of the cartridges used.

Having selected the appropriate fittings, a user valve/faucet should be installed in accordance with the manufacturer's instructions in a convenient position and then connected to the filter.

1.4 Assembling and Fixing the Filter

Having chosen the position for the water filter (see 1.2 above), remove the clip on cover to expose the fixing slots and mark the position of the fixing screws onto your wall/unit. Attach the filter to the wall/unit with the fixing screws provided. Now with the water supply isolated connect the upstream and downstream pipework to the filter ensuring that the arrow on the top of the cap is showing the correct direction of flow and that piping/fittings are pushed into the push fittings to a minimum of 18mm (.75") depth.

Identify the filter cartridge options supplied for stages A, B or C in accordance with your requirement and screw the thread of each filter cartridge into the relevant cap until washer resistance is felt.

N.B. Do not over-tighten. When the cartridge seal is made, check that the "O" ring on the filter body is located correctly and screw the body to the cap. If there is less than 10" clearance below the base of the filter housing, place the filter body in position over the cartridge before screwing the cartridge into the cap. Hand-tighten only.

2. Conditioning the Ceramic Filter

The filter system should now be ready for pressurisation. With the user tap/faucet in the on position, gradually open the upstream isolation

valve until the flow from the tap has stabilised at the recommended flow rate. Then close the user tap/faucet and ensure that there is no water leaking from the system joints. When the system has been confirmed watertight, open the user tap and allow the water to run to waste for a minimum of 10 minutes. When water first comes out, it is normal for some grey dust to be flushed from the filter. Allow the filter to stand for 24 hours to condition the filter to the source water and then flush for a further 10 minutes to waste. After carrying out this procedure, the filter is now ready for use.

During use, contaminants filtered from the water may build up on the outer surface of the ceramic cartridge and cause a reduction in flow through the unit. In this instance, please refer back to your local distributor for advice.

3. Servicing the Filters

Removal, cleaning and reinstallation/replacement of the cartridges is carried out as follows:

With the upstream isolation valve off, vent the pressure by opening the user tap. Place a bowl under the filter body containing the cartridges. Using the wrench provided, unscrew the filter body, which will be full of water, and lower the body into the bowl. The cartridges can now be unscrewed from the cap and cleaned in accordance with the distributor's instructions or replaced as described in Section 1.4. When the cartridges have been re-installed, wipe the filter housing clean with a damp cloth.

Cleaning/Sterilising the Filter Housing: If it is necessary to clean or sterilise the housing, the following substances should be avoided:

- (a) Strong oxidising agents such as bleach or Milton solution.
- (b) All strongly acidic materials including some descalents.
- (c) Strongly alkaline materials.

Manufactured by Fairey Industrial Ceramics Limited, Newcastle, Staffs, ST5 9BT, England.

Telephone No. 44-1782-664420. Website: www.faireyceramics.com

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Fairey Industrial Ceramics Limited is an authorised user.

A cartridge that has reached the end of its life would be indicated by a reduction in the quality of the filtered water with respect to taste. The cartridge should be replaced in accordance with the rated service capacity, which would typically give a period of six months usage.

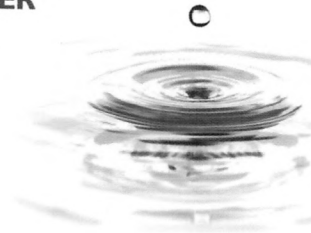
Parts and Service Availability:

For sales, service and replacement parts please contact your local Doulton® distributor.

Only use genuine Doulton® replacement cartridges to ensure optimum filter performance.

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TOM FRANKEL
SR. ACCOUNT MANAGER

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Zumbrota, MN 55992

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If a new ceramic cartridge is installed, condition this cartridge for use in accordance with the cartridge manufacturer's instructions. **It is important** to wash your hands thoroughly after servicing the filter.

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